TS-207

In-Vehicle Fanless Box PC w/ IP65 & PoE LAN Powered by 11th Gen. Intel® Core™ Processors

Features

- 11th Gen. Intel® Core™ U-Series Processors
- Fanless Operating on -40 ~70°C Temperature
- Support 4 Ports Gigabit Power over Ethernet
- Lockable Connectors with IP65 Protection
- Intelligent Vehicle Power Ignition
- 12/24V_{DC} with E-Mark & EN50155 Certifications
- Remove Management Advantech WISE-DeviceOn

Windows Embedded WISE-DeviceOn LISTED c UL us E190881 CE FCC RoHS COMPLIANT 2002/95/EC

Specifications

		TS-207-S5A1E	TS-207-S8A1E
Processor System	CPU	Intel i5-1145GRE	Intel Celeron 6305E
	Frequency	2.6/ 4.1 GHz (Max Trubo)	1.8 GHz
	L3 Cache	8 MB	4MB
	BIOS	AMI EFI 128 Mbit	
Memory	Technology	DDR4 Dual-channel memory, Up to 3200MT/S	DDR4 Dual-channel memory, Up to 3200MT/S
	Onboard memory	None	8GB
	SODIMM Memory	1x SO-DIMM socket (up to 32GB)	1x SO-DIMM socket (up to 32GB)
Graphics	Controller	Intel® Iris® Xe Graphics 1.30 GHz	Intel® Iris® Xe Graphics 1.25 GHz
	HW Acceleration	HW Encode: Supports AVC, MPEG-2, HEVC, and VP9. HW Decode: Supports Direct3D* 9 Video API (DXVA2),Direct3D12 Video API,Intel Media SDK,MFT (Media Foundation Transform) filters,Intel VA API	
	HDMI	2x HDMI 2.0b with 4Kx2K support at 48-60Hz/24bpp	
Audio	Main System	1x Pin header, Line-in, Line out, Mic-in (support by project)	
Ethernet	PoE LAN (Power over Ethernet, 1~4)	4x M12 circular with Ethernet 10/100/1000 Mbps speed support (max.60Watt)	
I/O Interface	Serial Ports	2x DB-9. Isolated RS-232/422/485 with auto flow control	
	USB Interface	2x USB 3.0/2.0 2x M12 circular with USB 2.0 support	
Other	Watchdog timer	255-level timer interval, setup by software	
	TPM	TPM2.0	
Expansion	mPCIe	1x Full size mini PCIe slot (with PCIe Gen 1/USB 3.0, USB 2.0)	
	mPCIe/mSATA	1x Full size mini PCIe slot (with PCIe Gen 1/USB 3.0, USB 2.0 & SATA)	
	M.2	1x M.2 2230 E key (with PCIe Gen 1, USB 2.0 signals)	
Storage	mSATA	1x MSATA (leverage mSATA/mPCIe slot)	
	NVMe SSD	Up to 32GB (support by project)	
Software Support	Microsoft Windows	Windows 10	
	Linux	Ubuntu 20.04 LTS	
Power Requirement	Power Input Voltage	In-Vehicle: +12/24V_{DC} or Railway: +24V_{DC}	
	Vehicle Power Ignition	Selectable boot-up & shut-down voltage, on/off delay time	
	Power Consumption	N/A	
	Isolation	1.5 KV Isolated	
Mechanical	Construction	Aluminum housing, Black	
	Mounting	Desk/Wall-mounting Din-Rail/VESA mounting by option	
	Dimensions (W x H x D)	294 x 226 x 73mm	
Environment	Operating Temperature	0-60 °C/ -40-70 °C with air flow 0.7m/s (work with normal/ extended temperature peripherals)	
	Storage Temperature	-40 ~ 85 °C (-40~185 °F)	
	Relative Humidity	95% @ 40 °C (non-condensing)	
	IP Rating	IP65	
	Vibration/Shock	N/A	
Regulation	EMC	CE/FCC Class B, CCC, BSMI	
	Safety	12V and 24V_{DC}: CCC, BSMI, E-Mark (E13) Additional for 24V_{DC}: EN50155, EN45545	
	In-Vehicle Power	ISO7637-2 Lev.4	

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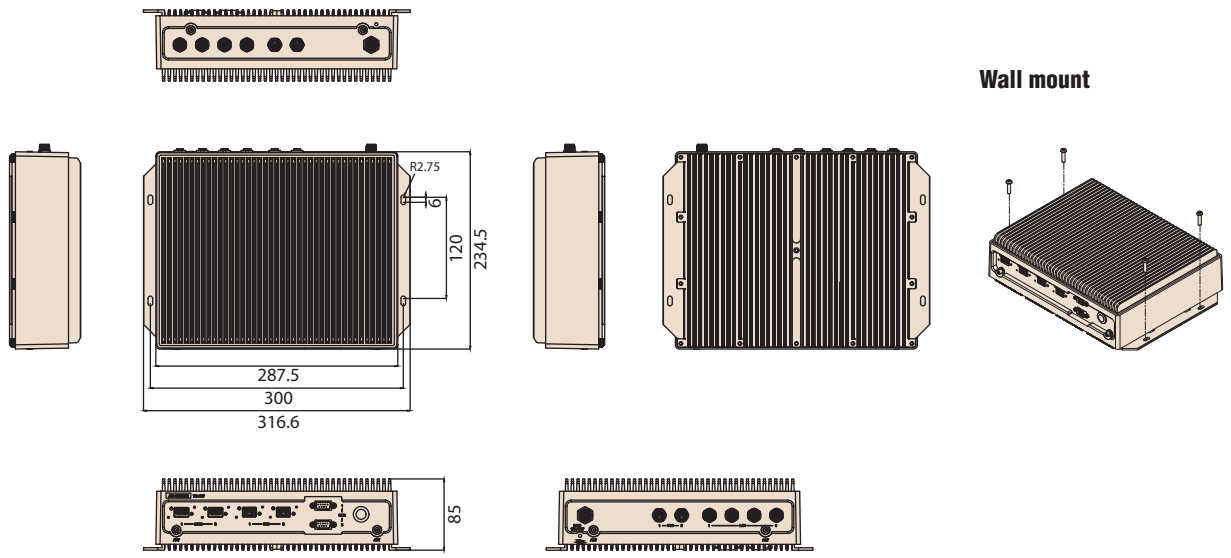
All product specifications are subject to change without notice.

Dimensions

Unit: mm



Ordering Information

Part Number	Intel CPU	RAM	NVMe SSD	mSATA	Display	GbE (PoE)	USB	COM	MiniPCIe	SIM Holder	Power Input	Operating Temperature
TS-207-S5A1E	Intel i5-1145GRE, 4.1GHz	None	Support by project	1	2x HDMI	4 (M12)	2 x USB3.0/ 2.0 2 x USB2.0 (M12)	2	2x full size	0	12/24V_{DC}	-40-70 °C
TS-207-S8A1E	Intel Celeron 6305E, 1.8GHz	Soldered 8GB										0-60 °C

Note: Intel Celeron 3955U is supported by request

Packing List

Part Number	Description
-	1 x TS-207 Unit
-	1 x User Manual (Simplified Chinese)

Embedded OS

Part Number	Description
-	N/A

Optional Items

Part Number	Description
96PSA-A120W24T2-3	AC-to-DC Adapter
1702002600	Power Cable 3-pin 180cm, USA type
1702002605-02	Power Cable 3-pin 183cm, Europe type
1700018704	Power Cable 3-pin 183cm, UK type
EMCB-200U-MP01E	SQC CANBus Full-size, 2-Ch, USB I/F